

Cryptophagidae (Coleoptera) of the KwaZulu Natal (South Africa)

Cryptophagidae (Coleoptera) провинции Квазулу-Натал (ЮАР)

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KEY WORDS: Coleoptera, Cryptophagidae, KwaZulu-Natal, South Africa Republic.

КЛЮЧЕВЫЕ СЛОВА: Coleoptera, Cryptophagidae, Квазулу-Натал, ЮАР.

ABSTRACT. The material KwaZulu-Natal's Collection: the results of expedition (2003–04) in South Africa Republic. The some species *Cryptophagus*, *Micrambe*, *Atomaria*, *Curelius* are determined.

РЕЗЮМЕ. Представлен материал, собранный во время экспедиции в ЮАР в 2003–04 гг. Найдены виды родов *Cryptophagus*, *Micrambe*, *Atomaria*, *Curelius*.

The family Cryptophagidae comprises about 800 species worldwide. Cryptophagidae [in the sense of Johnson et al., 2007] are to be found in mouldy plant substrates, in flowers, in fungi, under bark, and in the nests of social insects, and the nests of birds and mammals. The species associated with stored food products are supposed to live on the spores and hyphae of moulds [Hinton, 1945].

The material was collected by M.B. Mostovski in KwaZulu-Natal province (Fig. 1). The KwaZulu-Natal National Park specialises in the conservation of plants

and animals from the eastern region of South Africa and of rare and endangered species from elsewhere. A total of thirty-seven species and subspecies endemic to the Province in certain families of Coleoptera, Diptera, Lepidoptera, Mecoptera and Odonata were included [Armstrong, 2002]. This material was received from V.G. Gratchev, recently deceased entomologist dealing with family Curculionidae.

Besides Cryptophagidae, material contains several genera of Phalacridae. Phalacridae of South Africa is poorly understood, except old papers of Champion and Guillebeau [Champion, 1925; Guillebeau, 1892, 1893, 1894] and several contemporary works [Lyubarsky, 1997, 2004; Svec, 2002]. The material contains *Entomocnemus* Guillebeau, 1894, *Augasmus* Motschulsky, 1858, *Olibrus* Erichson, 1845, *Phalacrus* Paykull, 1800, *Tinodes* Guillebeau, 1894.

The present work contains also determination of Cryptophagid species. Material available for study is presented by 429 specimens of Cryptophagidae, all collected by M.B. Mostovski (2003–04). The material derives mostly from Pietermaritzburg. Standard label: S. Africa, KwaZulu-Natal, Pietermaritzburg, Hilton, Malaise trap, leg. M.B. Mostovski.

Family *Cryptophagidae* Kirby, 1837

Subfamily *Cryptophaginae* Kirby, 1837

Cryptophagus laticollis Lucas, 1846

MATERIAL. S. Africa, KwaZulu-Natal, Pietermaritzburg, Hilton, Malaise trap, 23.109–12.11.2003 leg. M. Mostovski (2 spec.); KZN, PMB, Hilton, Malaise-tr./ garden, 27.09–13.10.2003 leg. M. Mostovski (3 spec.)

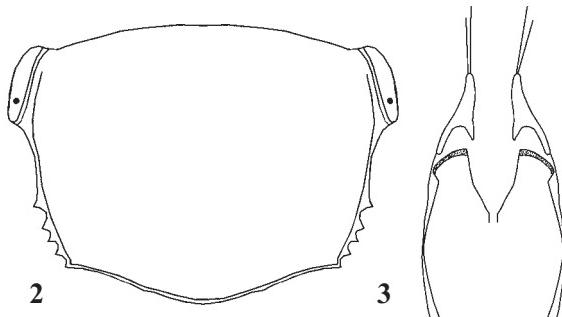
DISTRIBUTION. A cosmopolitan distribution, synanthrop.

Micrambe sp.indet.

MATERIAL. S. Africa, KwaZulu-Natal, Pietermaritzburg, Hilton, Malaise trap, 23.109–12.11.2003, leg. M. Mostovski (49 spec.); ibid. 13–23.11.2003, leg. M. Mostovski (25 spec.); ibid. 24.11–09.12.2003, leg. M. Mostovski (52 spec.); ibid. 109–23.12.2003, leg. M. Mostovski (24 spec.); ibid. 24.12.2003–14.01.2004, leg. M. Mostovski (31 spec.); ibid. 15–26.01.2004, leg. M. Mostovski (6 spec.); ibid. 27.01–16.02.2004, leg. M. Mostovski (47 spec.); ibid. 17–29.02.2004, leg. M. Mostovski (18 spec.); ibid. 29.02–13.03.2004, leg. M. Mostovski (34 spec.); ibid. 3–5.03.2004, leg. M. Mostovski (3 spec.); S. Afr., KZN, PMB, Hilton, Malaise-tr./ garden, 27.09–13.10.2003, leg. M. Mostovski (79 spec.).



Fig. 1. Prov. KwaZulu-Natal in South Africa Republic.
Рис. 1. Карта провинции Квазулу-Натал (ЮАР).



Figs 2–3. *Micrambe* sp.indet.: 2 — pronotum, 3 — aedeagus.
Pic. 2–3. *Micrambe* sp.indet.: 2 — переднеспинка; 3 — эдеагус.

REMARKS. This species (Figs 2–3) is distinguished by the following features: pronotum very transverse, four teeth in lateral margin, pubescence elated, hind wing present.

N. Bruce in several major articles describing a new species in the genus *Micrambe* from South Africa. Three authors (Bruce, Grouvelle, and Scott) describe several dozen species of the genus from South Africa. This genus requires a detailed revision. For example, some species are described by a single female. These multiple forms have been described by Bruce [1951, 1952a, b, 1954, 1959, 1960, 1963, 1965], Grouvelle [1903, 1908, 1916, 1919], Scott [1935, 1934–1936].

Listed criteria (pronotum very transverse, four teeth in lateral margin, pubescence elated, hind wing present) have not all species. The some species are not suitable for the specified in the description of special features. For instead, *M. varicolor* Grouvelle, 1919 — last sternite of abdomen with depression, metanotum with narrow not punctured strip medially.

Many species are suitable on the basis of descriptions: *M. brachyptoracicus* Bruce, 1952 (Tanganyika); *M. hirsutus* Grouvelle, 1916 (Cape); *M. irritabilis* Bruce, 1951 (Park Albert, Congo); *M. kolbei* Grouvelle, 1916 (Zululand); *M. madagascariensis* Grouvelle, 1916 (Mt. Cameroon); *M. minutus* Grouvelle, 1916 (Cape); *M. molestus* Bruce, 1951 (Park Albert, Congo); *M. mutilatus* Bruce, 1952a (Congo); *M. olkokolae* Bruce, 1960 (Tanganyika); *M. plagiatus* Pering. (Cape); *M. punctatus* Grouvelle, 1916 (Natal); *M. reitteri* Grouvelle, 1916 (Cape); *M. simoni* Grouvelle, 1916 (Natal); *M. tenuicornis* Grouvelle, 1908 (Rodesia).

Subfamily Atomariinae LeConte, 1861

Atomaria (Anchicera) lewisi Reitter, 1877

MATERIAL. S. Africa, KwaZulu-Natal, Pietermaritzburg, Hilton, Malaise trap, 23.10–12.11.2003, leg. M. Mostovski (6 spec.); ibid. 10–23.12.2003, leg. M. Mostovski; ibid. 24.12.2003–14.01.2004, leg. M. Mostovski (4 spec.); ibid. 17–29.02.2004, leg. M. Mostovski; S. Afr., KZN, PMB, Hilton, Malaise-tr./ garden, 27.09–13.10.2003, leg. M. Mostovski (15 spec.).

DISTRIBUTION. A cosmopolitan distribution, synanthropic. There are findings in South Africa: Cape Prov. [Johnson, 1970].

Atomaria (Anchicera) marshalli Johnson, 1968

MATERIAL. S. Afr., KZN, PMB, Hilton, Malaise-tr./ garden, 27.09–13.10.2003, leg. M. Mostovski (4 spec.).

DISTRIBUTION. Endemic to South Africa. There are findings in South Africa: Estcourt, Cape Prov. [Johnson, 1968, 1970].

Curelius japonicus (Reitter, 1877)

MATERIAL. S. Africa, KwaZulu-Natal, Pietermaritzburg, Hilton, Malaise trap, 13–23.11.2003, leg. M. Mostovski; ibid. 24.12.2003–14.01.2004, leg. M. Mostovski (6 spec.); ibid. 15–26.01.2004, leg. M. Mostovski (4 spec.); ibid. 27.01–16.02.2004, leg. M. Mostovski; ibid. 17–29.02.2004, leg. M. Mostovski (9 spec.); ibid. 29.02–13.03.2004, leg. M. Mostovski (4 spec.).

DISTRIBUTION. Common in W. Africa: Senegal, Gambia, Sierra Leone, Ghana, Nigeria. Are distributed on the eastern coast of Africa from Ethiopia to Kenya, south Zimbabwe, as well as in USA and Brazil [Johnson, 1989].

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